ELSEVIER

Journal of Electroanalytical Chemistry 446 (1998) 233

JOURNAL OF ELECTROANALYTICAL CHEMISTRY

Author index

Albalat, R. 79
Amatore, C. 91
Aramata, A. 227
Argoul, F. 189
Ariyama, K. 205

Barber, J. 125
Benito, D. 47
Bento, M.F. 91
Bordin, G. 139
Bruneel, J.L. 189

Carbó, R. 79
Cattarin, S. 7
Cha, C.-s. 159
Chen, G.Z. 1
Claret, J. 79
Conway, B.E. 125

Daujotis, V. 151
Decker, F. 7
de Diego, A. 177
Dini, D. 7

Fan, X. 1
Feliu, J.M. 79
Fray, D.J. 1
Funahasi, Y. 113

Gaidamauskas, E. 151
García-Jareño, J.J. 47

Harlyk, C. 139

Jiang, J.-h. 159

Kakiuchi, T. 19
Kan, J. 107
Keita, B. 211
Komura, T. 113
Kong, Y.-T. 19
Korshin, G.V. 13

Lev, O. 57
Lipkowski, J. 67
Luget, A. 1
Lu, J. 107
Lu, Y.-H. 25

Madariaga, J.M. 177
Magnussen, O.M. 67
Mahmoud, A. 211
Morin, S. 125
Mu, S. 107

Nadjo, L. 211
Nakamura, M. 227
Navarro-Laboulais, J. 47
Nieto, O. 139
Nikitas, P. 165

Ocko, B.M. 67

Opalo, M. 39
Oyama, N. 205

Rodríguez, A.R. 139

Sampath, S. 57
Servant, L. 189
Shaffer, M.S. 1
Su, Y.O. 25

Takahasi, K. 113
Taniguchi, M. 227
Tatsuma, T. 205
Texier, F. 189
Thouin, L. 91

Usobiaga, A. 177

Vicente, F. 47

Wandlowski, T. 67
Windle, A.H. 1
Wu, B.-l. 159
Wu, S. 67

Yamagishi, A. 227
Yamaguti, T. 113

Zhuang, L. 107

PII S0022-0728(98)00121-1

ELSEVIER

Journal of Electroanalytical Chemistry 446 (1998) 235–237

JOURNAL OF ELECTROANALYTICAL CHEMISTRY

Subject index

Adsorption
Stability of bismuth adlayers on Pt(111) electrodes in the presence of adsorbed organic compounds 79
Alkene oxidation
Spectral and electrocatalytic studies for unusual oxidation and reduction states of chromium porphyrins in aqueous solutions 25
Aniline
Interconversion of polarons and bipolarons of polyaniline during the electrochemical polymerization of aniline 107
Anion effect
Effect of anions on the underpotential deposition of thallium(I) on polycrystalline silver 151
Au(111)
Underpotential deposition of zinc ions on Au(111) in phosphate solution (pH 4.6): kinetic and STM studies 227

Band A
Investigation of the oxidation of glassy carbon by the method of electroreflectance—relevance to activation processes 13
Bipolaron
Interconversion of polarons and bipolarons of polyaniline during the electrochemical polymerization of aniline 107
Bismuth
Stability of bismuth adlayers on Pt(111) electrodes in the presence of adsorbed organic compounds 79

Cadmium
Electrochemical behaviour of a metallothionein related peptide in the presence of cadmium using cyclic voltammetry 139
Carbon monoxide
Stability of bismuth adlayers on Pt(111) electrodes in the presence of adsorbed organic compounds 79
Carbon nanotubes
Electrolytic conversion of graphite to carbon nanotubes in fused salts 1
Ceramic-carbon electrodes
Electrochemical oxidation of NADH on sol–gel derived, surface renewable, non-modified and mediator modified composite-carbon electrodes 57
Charge transport
Dependence of redox-kinetic parameters at poly(*o*-phenylenediamine)-modified electrodes upon the oxidation and protonation levels of the polymer 113
Chromium porphyrins
Spectral and electrocatalytic studies for unusual oxidation and reduction states of chromium porphyrins in aqueous solutions 25
Conductimetric
Critical comparison among equations derived from the Falkenhagen model to fit conductimetric data of concentrated electrolyte solutions 177
Confocal Raman microspectroscopy
In situ probing of interfacial processes in the electrodeposition of copper by confocal Raman microspectroscopy 189

Crystallographic structure
The driving force for $(p \times \sqrt{3}) \leftrightarrow (1 \times 1)$ phase transition of Au(111) in the presence of organic adsorption: a combined chronocoulometric and surface X-ray scattering study 67
Curvature effect
Diffuse layer effect and effect of curvature on the mechanism and the properties of phase transitions at electrified interfaces 165
Cyclic voltammetry
Electrochemical stability of redox active ions and molecules in liquid and frozen stoichiometric electrolytes 39
Stability of bismuth adlayers on Pt(111) electrodes in the presence of adsorbed organic compounds 79

Diffuse layer effect
Diffuse layer effect and effect of curvature on the mechanism and the properties of phase transitions at electrified interfaces 165
Diffusion-adsorption
Electrochemical behaviour of a metallothionein related peptide in the presence of cadmium using cyclic voltammetry 139
Dihydronicotinamide adenine dinucleotide
Electrochemical oxidation of NADH on sol–gel derived, surface renewable, non-modified and mediator modified composite-carbon electrodes 57
2,4-Dinitrofluorobenzene
Nucleophilic substitution reaction of 2,4-dinitrofluorobenzene with hydroxide ions at the polarized nitrobenzene|water interface 19
Direct electron transfer
Kinetic analysis of electron transfer from a graphite coating to horseradish peroxidase 205

EIS
Specificity of the kinetics of H_2 evolution to the structure of single-crystal Pt surfaces, and the relation between opd and upd H 125
Electrified interface
Diffuse layer effect and effect of curvature on the mechanism and the properties of phase transitions at electrified interfaces 165
Electroactive compounds
Investigation of the mass transport of electroactive compounds in an SPE membrane used for electro-organic synthesis 159
Electrochemical impedance
Dependence of redox-kinetic parameters at poly(*o*-phenylenediamine)-modified electrodes upon the oxidation and protonation levels of the polymer 113
Electrochemical polymerization
Interconversion of polarons and bipolarons of polyaniline during the electrochemical polymerization of aniline 107
Electrode kinetics
Specificity of the kinetics of H_2 evolution to the structure of single-crystal Pt surfaces, and the relation between opd and upd H 125
Electrolyte solutions
Critical comparison among equations derived from the Falkenhagen model to fit conductimetric data of concentrated electrolyte solutions 177

PII S0022-0728(98)000122-3

Electron microscopy
Electrolytic conversion of graphite to carbon nanotubes in fused salts 1
Electro-organic synthesis
Investigation of the mass transport of electroactive compounds in an SPE membrane used for electro-organic synthesis 159
Electropolymerisation
Electrochemical behaviour of poly(neutral red) on an ITO electrode 47
Electroreflectance spectra
Investigation of the oxidation of glassy carbon by the method of electroreflectance—relevance to activation processes 13
Electrosynthesis
EQCM study of the process of silicomolybdic anion doping in polyaniline films electrosynthesized in the presence of various anions 211
Entropy
Electrochemical stability of redox active ions and molecules in liquid and frozen stoichiometric electrolytes 39
Enzyme electrode
Kinetic analysis of electron transfer from a graphite coating to horseradish peroxidase 205
EQCM study
EQCM study of the process of silicomolybdic anion doping in polyaniline films electrosynthesized in the presence of various anions 211

Falkenhagen model
Critical comparison among equations derived from the Falkenhagen model to fit conductimetric data of concentrated electrolyte solutions 177
Frozen electrolyte
Electrochemical stability of redox active ions and molecules in liquid and frozen stoichiometric electrolytes 39
Fused salt electrolysis
Electrolytic conversion of graphite to carbon nanotubes in fused salts 1

Glassy carbon
Investigation of the oxidation of glassy carbon by the method of electroreflectance—relevance to activation processes 13
Gold
The driving force for $(p \times \sqrt{3}) \leftrightarrow (1 \times 1)$ phase transition of Au(111) in the presence of organic adsorption: a combined chronocoulometric and surface X-ray scattering study 67
Graphite
Electrolytic conversion of graphite to carbon nanotubes in fused salts 1
Graphite coating
Kinetic analysis of electron transfer from a graphite coating to horseradish peroxidase 205

H adsorption
Specificity of the kinetics of H_2 evolution to the structure of single-crystal Pt surfaces, and the relation between opd and upd H 125
H_2 difusion
Specificity of the kinetics of H_2 evolution to the structure of single-crystal Pt surfaces, and the relation between opd and upd H 125

Indium–tin oxide
Electrochemical behaviour of poly(neutral red) on an ITO electrode 47
In-situ ESR
Interconversion of polarons and bipolarons of polyaniline during the electrochemical polymerization of aniline 107
Interfacial processes
In situ probing of interfacial processes in the electrodeposition of copper by confocal Raman microspectroscopy 189

Low [electrolyte]/[analyte] ratios
Potential measurements in steady state voltammetry at low electrolyte/analyte concentration ratios. Role of convection on ohmic drop: a simplified model 91

Mass transport
Investigation of the mass transport of electroactive compounds in an SPE membrane used for electro-organic synthesis 159
Metal centered
Spectral and electrocatalytic studies for unusual oxidation and reduction states of chromium porphyrins in aqueous solutions 25

Nafion® membrane
Investigation of the mass transport of electroactive compounds in an SPE membrane used for electro-organic synthesis 159
Nucleophilic substitution
Nucleophilic substitution reaction of 2,4-dinitrofluorobenzene with hydroxide ions at the polarized nitrobenzene|water interface 19

Ohmic drop
Potential measurements in steady state voltammetry at low electrolyte/analyte concentration ratios. Role of convection on ohmic drop: a simplified model 91
Organic adsorption
The driving force for $(p \times \sqrt{3}) \leftrightarrow (1 \times 1)$ phase transition of Au(111) in the presence of organic adsorption: a combined chronocoulometric and surface X-ray scattering study 67
Oscillations
Probe beam deflection study of p-Si electrodissolution in acidic fluoride medium in the oscillating regimes 7
Oxidation
Electrochemical oxidation of NADH on sol–gel derived, surface renewable, non-modified and mediator modified composite-carbon electrodes 57

Peptidic fragment
Electrochemical behaviour of a metallothionein related peptide in the presence of cadmium using cyclic voltammetry 139
Peroxidase
Kinetic analysis of electron transfer from a graphite coating to horseradish peroxidase 205
Phase transition
Diffuse layer effect and effect of curvature on the mechanism and the properties of phase transitions at electrified interfaces 165
Phosphate adsorption
Underpotential deposition of zinc ions on Au(111) in phosphate solution (pH 4.6): kinetic and STM studies 227
Platinum
Stability of bismuth adlayers on Pt(111) electrodes in the presence of adsorbed organic compounds 79
Polarized NB|W interface
Nucleophilic substitution reaction of 2,4-dinitrofluorobenzene with hydroxide ions at the polarized nitrobenzene|water interface 19
Polarography
Nucleophilic substitution reaction of 2,4-dinitrofluorobenzene with hydroxide ions at the polarized nitrobenzene|water interface 19
Polaron
Interconversion of polarons and bipolarons of polyaniline during the electrochemical polymerization of aniline 107

Polyaniline films
EQCM study of the process of silicomolybdic anion doping in polyaniline films electrosynthesized in the presence of various anions 211
Polymer-modified electrode
Dependence of redox-kinetic parameters at poly(*o*-phenylenediamine)-modified electrodes upon the oxidation and protonation levels of the polymer 113
Poly(neutral red)
Electrochemical behaviour of poly(neutral red) on an ITO electrode 47
Poly(*o*-phenylenediamine)
Dependence of redox-kinetic parameters at poly(*o*-phenylenediamine)-modified electrodes upon the oxidation and protonation levels of the polymer 113
Potentiometric sensors
Electrochemical behaviour of poly(neutral red) on an ITO electrode 47
Probe beam deflection technique
Probe beam deflection study of p-Si electrodissolution in acidic fluoride medium in the oscillating regimes 7
Pt
Specificity of the kinetics of H_2 evolution to the structure of single-crystal Pt surfaces, and the relation between opd and upd H 125
Pulsed-current copper electrodeposition
In situ probing of interfacial processes in the electrodeposition of copper by confocal Raman microspectroscopy 189

Redox-kinetic parameters
Dependence of redox-kinetic parameters at poly(*o*-phenylenediamine)-modified electrodes upon the oxidation and protonation levels of the polymer 113
Redox potential
Electrochemical stability of redox active ions and molecules in liquid and frozen stoichiometric electrolytes 39

Silicomolybdic anion doping
EQCM study of the process of silicomolybdic anion doping in polyaniline films electrosynthesized in the presence of various anions 211
Silicon electropolishing
Probe beam deflection study of p-Si electrodissolution in acidic fluoride medium in the oscillating regimes 7
Silicon oxide etching
Probe beam deflection study of p-Si electrodissolution in acidic fluoride medium in the oscillating regimes 7
Silver electrode
Effect of anions on the underpotential deposition of thallium(I) on polycrystalline silver 151
Simplified model
Potential measurements in steady state voltammetry at low electrolyte/analyte concentration ratios. Role of convection on ohmic drop: a simplified model 91
Single-crystal
Specificity of the kinetics of H_2 evolution to the structure of single-crystal Pt surfaces, and the relation between opd and upd H 125
Solid polymer electrolyte
Investigation of the mass transport of electroactive compounds in an SPE membrane used for electro-organic synthesis 159
STM
Underpotential deposition of zinc ions on Au(111) in phosphate solution (pH 4.6): kinetic and STM studies 227
Surface states
Investigation of the oxidation of glassy carbon by the method of electroreflectance—relevance to activation processes 13

Temperature
Electrochemical stability of redox active ions and molecules in liquid and frozen stoichiometric electrolytes 39
Thallium upd
Effect of anions on the underpotential deposition of thallium(I) on polycrystalline silver 151
Two-electron oxidation
Spectral and electrocatalytic studies for unusual oxidation and reduction states of chromium porphyrins in aqueous solutions 25

Ultramicroelectrode
Electrochemical stability of redox active ions and molecules in liquid and frozen stoichiometric electrolytes 39
upd kinetics
Underpotential deposition of zinc ions on Au(111) in phosphate solution (pH 4.6): kinetic and STM studies 227

Voltammetric measurements
Potential measurements in steady state voltammetry at low electrolyte/analyte concentration ratios. Role of convection on ohmic drop: a simplified model 91
Voltammetry
Nucleophilic substitution reaction of 2,4-dinitrofluorobenzene with hydroxide ions at the polarized nitrobenzene|water interface 19

Zn underpotential deposition
Underpotential deposition of zinc ions on Au(111) in phosphate solution (pH 4.6): kinetic and STM studies 227